PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

l	s or agent's file reference	FOR FURTH		See Form PCT/IPEA/416						
International application No.		International fili	ng date (day/month/year)	Priority date (day/month/year)						
PCT/	EP2004/00796	6 16.07.2	2004	18.07.2003						
	International Patent Classification (IPC) or national classification and IPC									
G06F1/00										
Applicant OCE	PRINTING SYS	STEMS GMBH								
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2.	This REPORT consists of	a total of 5	sheets, including	ng this cover sheet.						
3.	This report is also accompa	anied by ANNEXES, compr	ising:							
	a. (sent to the app	olicant and to the Internation	nal Bureau) a total of 8	sheets, as follows:						
i.	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental										
Box.										
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))										
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see										
Section 802 of the Administrative Instructions).										
4.	4. This report contains indications relating to the following items:									
	Box No. I Basis of the report									
	Box No. II	Priority								
	Box No. III	Non-establishment of opinio	n with regard to novelty, inver	ntive step and industrial applicability						
j l	Box No. IV Lack of unity of invention									
	Box No. V Reasoned statement and c. Article 25(2) with regard to novelty, inventive step of industrial applicability; citations and explanations supporting such statement									
	Box No. VI									
	Box No. VII Certain defects in the international application									
	Box No. VIII	Certain observations on the i	nternational application							
Date of submission of the demand		Date of completion of t	Date of completion of this report							
Name and mailing address of the IPEA/EP			Authorized officer	Authorized officer						
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Facsimile No.			Telephone No.							

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/007966

Вох	No. I		Basis of the report	-		
1.			o the language, this report is based on the internatio er this item.	nal application in the language in v	which it v	was filed, unless otherwise
		which i	port is based on translations from the original langua s the language of a translation furnished for the purp			,
	r L	_	nternational search (Rule 12.3 and 23.1(b))			
	Ĺ	-	ublication of the international application (Rule 12.4 nternational preliminary examination (Rule 55.2 and			
2.	receivi	regard ting Off	to the elements of the international application, this fice in response to an invitation under Article 14 artification as originally filed/furnished cription:	report is based on (replacement s	heets wh riginally	ich have been furnished to the filed" and are not annexed to
	I	pages	1, 2, 5-16			as originally filed/furnished
	1	pages*	3-4, 4a	received by this Authority on		.2005 with letter .03.2005
	-	pages*				
		the clai		•		
	_					as originally filed/furnished
		nos.		1.16		
		nos.*			24.03	y statement) under Article 19
	1	nos.*	1-23			.03.2005
1		nos.*		_ received by this Authority on		
		the dra	wings:			
ļ	:	sheets	1/5-5/5			as originally filed/furnished
1		sheets*		received by this Authority on		
		sheets*	k	received by this Authority on		
		a sequa	ence listing and/or any related table(s) – see Supplen	nental Box Relating to Sequence L	isting.	
3.		The an	nendments have resulted in the cancellation of:			
	[□ ,	he description, pages			
	Ī		he claims, nos.			
İ	Ī	$\overline{}$	he drawings, sheets/figs			
ļ	Ī		he sequence listing (specify):			
		$\overline{}$				
	`		any table(s) related to sequence listing (specify):eport has been established as if (some of) the amen	dments annexed to this report and		
4.	Ш	they h	ave been considered to go beyond the disclosure as f	iled, as indicated in the Supplement	ntal Box	(Rule 70.2(c)).
	[the description, pages			
	[the claims, nos.			
	[the drawings, sheets/figs			
	[the sequence listing (specify):			
	[any table(s) related to sequence listing (specify):			
	If iten		plies, some or all of those sheets may be marked "suj			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/007966

Inventive step (IS) Claims Claims Claims Industrial applicability (IA) Claims Claims 1-23 Claims 1-23 YE Claims 1-23 YE NO 2. Citations and explanations (Rule 70.7) 1. This report makes reference to the following document: D1: US 2002/184495 A1 (TORII MIKIO ET AL) 5 December 2002 (2002-12-05) 2. The phrase "stored independently of the data" in claims 1 and 17 is unclear and leaves the reader uncertain as to the meaning of the technical feature in question. As a result, the subject matter of said claims is unclear (PCT Article 6).	Claims	ÆS NO				
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	feature in question. As a result, the subject					
Hereinafter, said phrase is interpreted in line	matter of said claims is unclear (PCT Article 6).					
Hereinafter, said phrase is interpreted in line						
	Hereinafter, said phrase is interpreted in line					
with page 5, lines 28-32 of the description and	with page 5, lines 28-32 of the description and					
with claim 3 to mean "stored in a volatile	with claim 3 to mean "stored in a volatile					
memory".	memory".					
3 INDEPENDENT CLAIMS 1, 17	INDEPENDENT CLAIMS 1, 17					
3.1 Document D1 is considered the prior art closest to						
the subject matter of claim 1 and discloses (the	.1 Document D1 is considered the prior art closest to					
references between parentheses refer to that						

International application No.
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

a method for printing sensitive data, comprising the following steps:

- encoding at the workstation (host apparatusB) sensitive data to be printed;
- transferring the sensitive data to be printed to a printing device;
- decoding the sensitive data to be printed
 ([0044]);
- converting the data to be printed into control signals (implicit) for actuating a printing unit (image forming section 70);
- printing the data onto a recording medium
 ([0087]).
- 3.2 The subject matter of claim 1 is novel (PCT Article 33(2)) and differs from the method known from D1 in that in claim 1 the encoded data is stored in a non-volatile memory between the encoding and the printing stages, the data being divided between a plurality of memory segments and the associations thereof being stored in a volatile memory.
- 3.3 The present invention can therefore be considered to address the problem of protecting the encoded data before it is printed.
- 3.4 This is achieved using the solution proposed in the application, in that an attacker requires access to both data carriers in order to be able to read the data. The data is protected from a physical attack, for example from the removal of

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the data carrier, in that the data is not accessible without the segment associations. In the event of a power failure, the association of the data is lost, thereby preventing access to the data. This solution has the additional advantage of using fewer volatile memories than solutions in which the data is stored in a volatile memory and is therefore also more cost-effective.

3.5 The combination of features contained in claim 1 is neither disclosed nor suggested by the available prior art.

The solution proposed in claim 1 therefore involves an inventive step (PCT Article 33(3)).

- 3.6 The same reasoning applies to independent claim 17. The subject matter of claim 17 is thus novel and involves an inventive step.
- 4 DEPENDENT CLAIMS 2-16, 18-23
- 4.1 Claims 2-16 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.
- 4.2 Claims 18-23 are dependent on claim 17 and therefore likewise meet the PCT requirements for novelty and inventive step.